MONITOR WELL PRE-SPUD PROPOSAL

1) WELL NAME/NUMBER: BW-7

2) PROPOSED LOCATION: (a) General (on or off-site) On-Site
(attach map) Site Area WSTF Boundary
(~~north~~ west of 400)

(b) Sect 35 Twnshp 20S Rng 3E NW ¼ ~~NW~~ SW ¼ NW ¼

3) WELL PARAMETERS:

(a) Est. total depth 235 (ft) (b) Est. ground elevation 4815 ft

(c) Anticipated stratigraphy:

Alluvium (Santa Fe Group) from 0 ' to 185 ' (depth)
Andesite (Orejon) from 185 ' to TD ' (depth)
_____ from _____ ' to _____ ' (depth)

(d) Anticipated water bearing horizon(s):

Andesite (Orejon) at 210 ' (depth)
_____ at _____ ' (depth)

(e) Anticipated static water level 210 ' (depth)

4) WELL PURPOSE/JUSTIFICATION (attach maps and table if needed):
Facility boundary well to determine contaminant concentrations (if present).

5) PROPOSED DRILLING PARAMETERS:

(a) Drilling method(s): (air/foam/mud rotary/auger/etc.)

Mud Rotary ' from 0 ' to 80 ' (depth)
Air-Foam Rotary ' from 80 ' to TD ' (depth)
_____ ' from _____ ' to _____ ' (depth)

Air-foam method: "Quik-Foam" surfactant/water mixture used in conjunction with filtered compress air.

Mud-rotary method: Bentonite mud/water mixture.

(b) Lithology sampling - collect sample every:

5' intervals Method Grab from 0 ' to TD (depth)

Core type _____ from _____' to _____' (depth)

2" Christiansen from _____' to _____' (depth)

2" Christiansen from _____' to _____' (depth)

(c) Drilling rig type: Franks rotary rig for surface casing, Chicago Pneumatic rotary rig

(d) Anticipated drilling additive(s): _____

Water source NASA Quality checked by GC (method)

(e) Decontamination/Quality Assurance:

Clean equipment by steam (method) prior to every well

Clean tools by steam (method) prior to every well

Other QA procedures Air filtering/monitoring, periodic steam cleaning of tools/sampling equipment when necessary

(f) Drilling company: Larjon Drilling

address: P.O. Box 925, Las Cruces, New Mexico 88047

Company representative: Larry Johnson Phone 505-526-8672

6) PROPOSED BOREHOLE GEOPHYSICS

(a) Survey type: GR - Neutron from 0 ' to TD (depth)

Survey type: GR-Den-Res-Cal from 0 ' to TD (depth)

Survey type: 16"-40" E-Log from W.L. ' to TD (depth)

(b) Geophysical company: Southwest Survey

address: 4200 Skyline Drive, Farmington, NM 87401

Company representative: Don Pearson Phone 505-325-8531

7) PROPOSED WELL COMPLETION DESIGN/MATERIALS

(a) Casing:	Material	Diameter	From	To	Comments
Temporary					
Surface	steel	8"	0	80'	
Blank (riser)	stainless +	4"	0	+3'	
Screen (10')	stainless ++	4"	205'	225'	0.02"
Completion Pipe	stainless +	4"	190'	205'	*
	PVC-Sch 40	4"	0	190'	
Silt trap	stainless +	4"	to 5' below screen		
Protective Cap	stainless +	4"	on top with lock		

\+ Type 304, Schedule 5 stainless steel

++ Regular strength screen

(b) Filter pack:

	Primary	Secondary
Material type	Prewashed sand	Prewashed sand
Grain Size	8/20 grade	16/40 grade
Est. length (thick)	30 feet	2-3' above & below 8/20

(c) Seal - Upper: Bentonite Thickness 5 feet above upper 16/40 sand

Lower: Bentonite Thickness 5 feet below lower 16/40 sand if needed

(d) Grout - Material 5% Bentonite cement from above completion zone to the surface

8) PROPOSED WELL DEVELOPMENT

(a) Development method Surge and pump

Equipment Pulling unit with bailer & submersible pump

(b) Anticipated flow rate 5-15 gpm Duration until adequately devel.

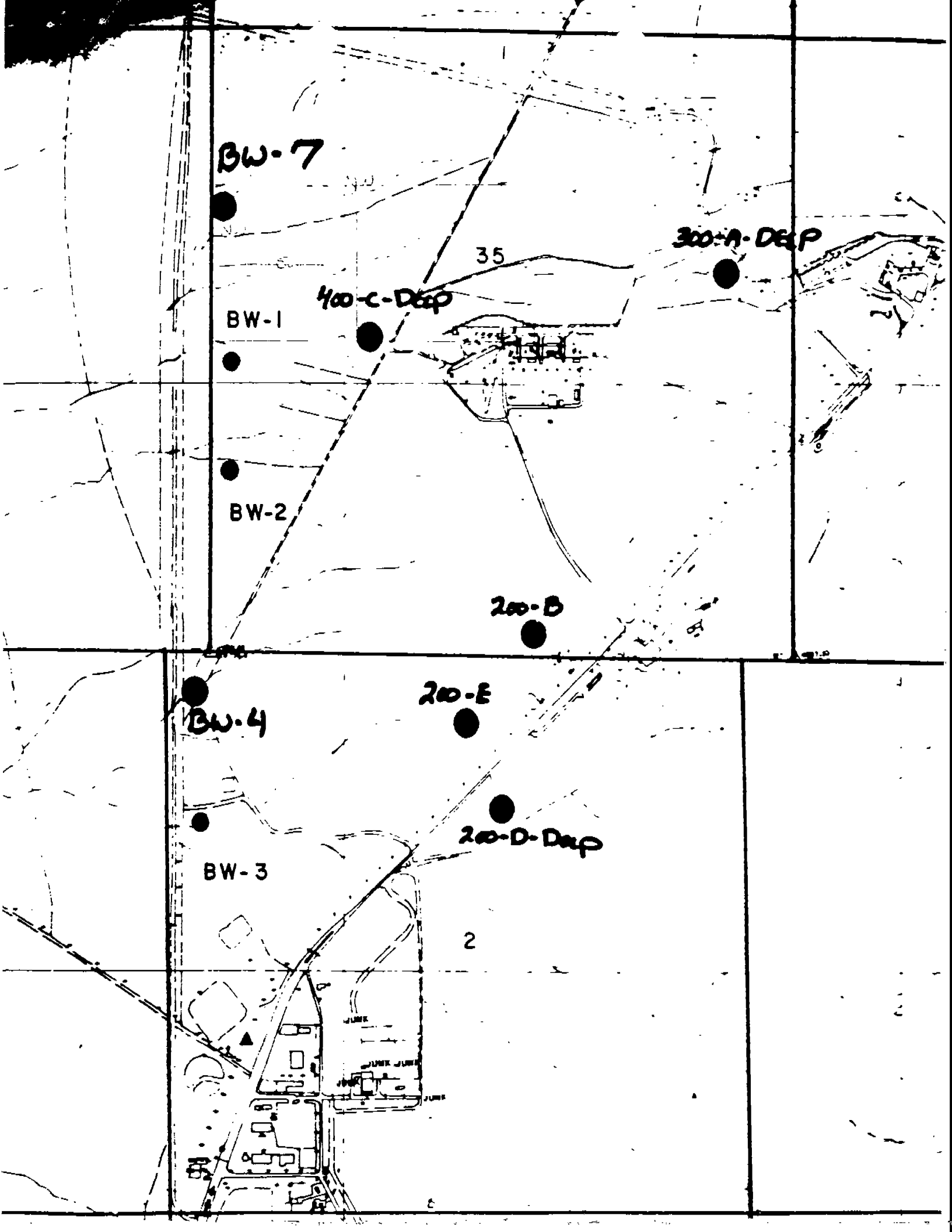
(c) Company providing service Larjon

9) WELL AUTHORIZATION

(a) Proposed by Geoscience Consultants, Ltd.

(b) Authorized Robert Mitchell (name) NASA (representing) Robert E. Mitchell (signature) 9 Nov 88

FORMS\BW7PS.PRO


BW-7
300-A-Deep
35
400-C-Deep
BW-1
BW-2
200-B
200-E
BW-4
200-D-Deep
BW-3
2